

63-20241

Zhurkov, S. N. and Sanfirova, T. P.  
TEMPERATURE-TIME DEPENDENCE OF THE  
STRENGTH OF PURE METALS. [1963] 9p 19refs  
Free copies available from Boeing Scientific Research  
Labs. Library as Boeing Trans. R78. When supply is  
exhausted, Order from OTS or SLA \$1.10 63-20241

Trans. of Akademiya Nauk SSSR. Doklady, 1955,  
v. 101, no. 2, p. 237-240.

DESCRIPTORS: \*Metals, \*Tensile properties, Fracture  
(Mechanics), Loading (Mechanics), Temperature,  
Aging (Materials), Degradation, Zinc, Aluminum,  
Silver, Platinum, Tests, Heat of activation,

An investigation was made of the life of pure metals  
over a broad range of temperatures and stresses. The  
metals used were: zinc (99.94%), and platinum (99.92%).  
The time T (in sec) elapsed from the moment of loading  
to fracture of the specimen was measured as a function  
(Mechanics, TT, v. 10, no. 12) (over)

I. Zhurkov, S. N.  
II. Sanfirova, T. P.  
III. Boeing Trans-R78  
IV. Boeing Scientific Research  
Labs., Seattle, Wash.

6139

Office of Technical Services

Block Tilts and the Strength of Metals, by  
S. N. Zhurkov, V. I. Betekhtin, 6 pp.

RUSSIAN, per, Fiz Tverdogo Tela, Vol V, No 5,  
1963, pp 1326-1334.

Sci -  
Nov 63

~~CS~~  
FIMER INST of Phys  
SOV Phys-SOLID STATE  
Vol V, No 5

241,744

The Role of Chemical and Intermolecular Bonds  
in Polymer Rupture, by S. N. Zhurkov, S. A.  
Abazov.

RUSSIAN, per, Vysokomoz Soedin, Vol III, No 3,  
1961, pp 450-455.

FIL/T 5260

*181, 292*

Sci - Chem

Jan 62

The Relationship Between the Strength of  
Solid Bodies and Time, by S. N. Zhurkov.  
B. N. Narzulaev.                      29 p.  
RUSSIAN, per, Zhurnal Tekhnicheskoi Fiziki,  
Vol 23, No 10, 1953, pp 1677-1689.  
NIL RTS-2925

*S. N. Zhurkov*

Sci-Phys  
Jul 66

306,173

Investigation of Macroradicals Arising during  
Mechanical Breakdown of Polymers. by S. N. Zhurkov,  
E. E. Tomashevskiy. 5 pp.

*Vol III*  
RUSSIAN, per, Fiz Tverdogo Tela, No. 9, 1961, pp.  
2841-2847

AIP  
Sov Phys-Solid State  
Vol III, No. 9

Sci

Mar 62

192,493

61-18245

Zhurkov, S. N. and Lerman, R. I.  
INFLUENCE OF THE VOLUME SORPTION OF  
VAPOURS ON THE SOLIDIFICATION TEMPERATURE  
OF POLYMERS. [1961] 2p. 7 refs.  
Order from OTS or SLA \$1.10      61-18245

I. Zhurkov, S. N.  
II. Lerman, R. I.

Trans. of [Akademiya Nauk SSSR]. Comptes Rendus  
(Doklady) de l'Academie des Sciences de l'U. R. S. S.,  
1945, v. 47, p. 106-109.

DESCRIPTORS: \*Polymers, Hardening, Vapors,  
Adsorption, Butenes, Butadienes, Acrylic resins,  
Acrylonitriles.

In view of the effect that the non-polymerized low-mo-  
lecular fraction of products of polymerization and  
plasticizing substances exert on the transition from a  
rubber-like to a glass-like state, experiments were  
carried out with various volatile organic solvents intro-  
duced into the polymers of butadiene and isobutene and  
(Chemistry--Organic, TT, v. 6, no. 7)      (over)

Office of Technical Services

121  
The Relationship Between the Strength  
of Solid Bodies and Time, by S. N. Zhur-  
kov, B. N. Narzulaev.  
RUSSIAN, per, Zhurnal Tekhnicheskoi  
Fiziki, Vol 23, No 10, 1953, pp 1677-1689.  
NLL RTS 2925

*S. N. Zhurkov*

Sci-Phys  
June 66

302,270

Time-Temperature Dependence of the Strength  
of Polymer Fibres, by S. N. Zhurkov,  
S. A. Abasov.

RUSSIAN, per, Vysokomol Soedin, Vol III, No 3,  
1961, pp 441-449.

TIL/T 5259

181.296

Sci - Phys

Jan 62

STUDY OF SUBMICROSCOPIC DEFECTS IN METALS  
BY THE METHOD OF X-RAY BEAM SCATTERING AT  
LOW ANGLES, BY S. N. ZHURKOV, A. I. SLUTSKER,  
5 PP.

RUSSIAN, BK, ISSLEDOVANIYA PO ZHAROPROCHNYM  
SPLAVAM, MOSCOW, VOL IV, 1959, PP 197-201.

JPRS 17370

SCI - M/M

JAN 63

221,081

The Problem of the Mechanism of Fracture of Solids,  
by S. N. Zhurkov, A. V. Savitskiy, 4 pp.

RUSSIAN, per, Dok Ak Nauk SSSR, Vol CXXIX, No 1,  
1959, pp 91-.

Amer Inst of Phys  
Sov Phys-Doklady  
Vol IV, No 6

Sci

Jul 60

120,689

Study of Diffusion in Polymers, by S. N. Zhurkov,  
G. Ya. Ryskin.

RUSSIAN, per, Zhur Tekh Fis, Vol XXIV, No 5,  
1954, pp 797-810.

Assoc Tech Serv RJ-1447  
" " " 50004R'

Sci - Phys

Apr 59

85,323

Relation Between Strength and Creep of  
Metals and Alloys, by S. N. Zhurkov, T. P.  
Sanfirova, 7 pp.

RUSSIAN, per, Zhur Tekh Fiz, Vol XXVIII,  
No 8, 1958, pp 1719-1726.

Amer Inst of Phys  
Sov Phys-Tech Phys  
Vol III, No 8

Sci - Phys

Mar 59

83,509

Investigation of the Hardness of Solid Bodies.  
II. Dependence of Durability on Pressure, by  
S. N. Zhurkov, E. E. Tomashevskiy, 11 pp.

RUSSIAN, no per, Zhur Tekh Fiz, Vol XXV, No 1,  
1955, pp 66-73.

909323 4

Morris D. Friedman  
\$5.50 2-106

27,895

Scientific - Physics  
CTS 73/Oct 1955

Variation of the Time Necessary to Rupture Solids in  
High Vacuum as a Function of Stress, by S. N. Zhurkov,  
B. Ya. Levin, E. E. Tomashevskiy, 3 pp.

RUSSIAN, per, Fiz Tverdogo Tela, Vol II, No 9, 1960,  
pp 2066-2069.

AIP  
Sov Phys - Solid State  
Vol II, No 9

Sci

Apr 61

144,506

Very-Low-Angle Scattering of X-Rays by Submicroscopic Imperfections, S. N. Zhurkov, and A. I. Slutsker, 5 pp. *by*

RUSSIAN, *Per.*, Zhur Tekh. Fiz, Vol XXVII, No 6, 1957, pp 1392-1394.

Amer Inst of Phys  
Sov Phys-Tech Phys  
Vol II, No 6

Sci - Phys

*62,901*

May 58

Microscopic Investigation of Crack Propagation on  
Rupture, S. N. Zhurkov and E. E. Tomashevskiy, 9 pp.

<sup>at</sup>  
RUSSIAN, per, Zhur Tekh Fiz, Vol XXVII, No 6, 1957,  
pp 1248-1256.

Amer Inst of Phys  
Sov Phys-Tech Phys  
Vol II, No 6

Sci - Phys

May 58

62,735

Investigation of Macroradicals Formed During the  
Mechanical Destruction of Polystyrene, by S. E.  
Bresler, S. N. Zhurkov, E. N. Kasbekov, E. M.  
Saminskiy, S. E. Tomashevskiy, 5 pp.

RUSSIAN, per, Zhur Tekh Fiz, Vol XXIX, No 3, 1959,  
pp 358-364.

AIP  
Vol IV, No 3

Sci - Phys  
Oct 59

100,128

Infrared Spectra of Polymers in the Temperature  
Range of Hardening, by S. N. Zhurkov, B. Ya.  
Levin, 6 pp.

RUSSIAN, thrice-mo per, Dok Ak Nauk SSSR, Vol  
LXVII, No 1, 1949, pp 69-92.

CIA/FDD/X-1222

Scientific - Physics  
CTS/DEX

9876

The Influence of Impurities on the Temperature-  
Time Dependence of the Strength of Metals, by  
V. I. Betekhtin, S. N. Zhurkov, A. V. Savitskiy,  
8 pp.

RUSSIAN, per, Fiz Metal i Metallov, Vol X, No 3,  
1960, pp 452-461.

FP

165,813

Sci  
Sep 61

62-34200

Zhurkov, S. N., Sanfirova, T. P., Tomashevskii,  
E. E.  
MECHANICAL PROPERTIES OF RUBBER AT HIGH  
STRETCH RATES. [1962] 5p.  
Order from ATS \$8. 25                      ATS-20P62R

Trans. of Vysokomolekul[yarnye] Soedin[eniya] (USSR)  
1962, v. 4, no. 2, p. 196-200.

DESCRIPTORS: \*Rubber, Mechanical properties,  
Elasticity.

*ATS/KJ-3620*

(Materials--Rubber, TT, v. 8, no. 11)

- I. Zhurkov, S. N.
- II. Sanfirova, T. P.
- III. Tomashevskii, E. E.
- IV. ATS-20P62R
- V. Associated Technical  
Services, Inc., East  
Orange, N. J.

*222, 210*

Office of Technical Services

The Temperature and Time Dependences of the  
Mechanical Strength of Silver Chloride, by  
S. N. Zhurkov, B. Ya. Levin, T. P. Sanfirova,  
3 pp.

RUSSIAN, per, Fiz Tverdogo Tela, Vol II, No 6,  
1960, pp 1040-1042.

AIP  
Sov Phys-Solid State

Sci

138, 157

Jan 61

(FDD 28011)

The Importance of World Collections of the All-Union Institute of Plant Growing in General and Special Problems of Selection, by P. M. Zhurkovskiy, 25 pp.

RUSSIAN, no par Botan Zhur, Vol XLI, No 2, Leningrad, Feb 1956, pp 161-171.

CIA/FDD: U-8552

38,111

USSR  
Sci - Biology

<p>Zhurnakova, M. A. IDENTIFICATION OF BRUCELLAE IN THE EXTERNAL ENVIRONMENT BY MEANS OF THE COMPLEMENT FIXATION REACTION (Indikatsiya Brucell v Ob'ektykh Vneshnei Sredy Metodom PSK). 1 June 61, 10p. Trans. V-1702. Order from OTS or SLA \$1.10                      61-23207</p> <p>Trans. of Veterinariya (USSR) 1961, v. 38, no. 1, p. 75-77.</p> <p>DESCRIPTORS: *Brucella, *Complement, Identification.</p> <p>(Biological Sciences--Microbiology, TT, v. 6, no. 4)</p>	<p>61-23207</p> <p>I. Zhurnakova, M. A. II. Trans-V-1702</p> <p>Office of Technical Services</p>
--	--

Examination of Adsorbed Properties of Active Carbons  
by Benzol and Nitrogen Vapors, by H. N. Dubinin,  
E. N. Zhurovskaya.

RUSSIAN, per, Academy of Sciences News Chemical  
Sciences Division, No 5, 1959, pp 535-544.

ACST H-5099

Sci - Chemistry

Apr 60

111,887

NEW DRUGS DEVELOPED BY INSTITUTE OF FINE ORGANIC  
CHEMISTRY OF THE ACADEMY OF CHEMICAL SCIENCES ARMENIAN  
S.S.S.R., BY L. ZHURULI, 6 PP.

RUSSIAN PER NAUKA I TEKHNIKA, NO 6, 1963, PP 26, 27.

JPRS 21148

SCI-BIOL  
SEP 63

343,955

The Electrical Conductivity of Copper Oxide, by 78  
V. P. Zhuse, D. V. Kurchatov.  
GERMAN, per, Physikalische Zeitschrift  
Sovietunion, Vol 2, 1932, pp 453-467.  
NASA TT F-11,919

*V. P. Zhuse*

Sci  
Dec 68

371,180

The Effect of Some Lipid Fractions From the Thymus and  
Spleen on Metabolic Processes, by I. Potop, Zh. Biner,  
E. Zhuvine, et al, 3 pp.

RUSSIAN, par, Biochim, Vol XXV, No 6, 1960,  
pp 987-990.

CB

Sci

157,499

Jul 61



Course, depth, speed, by Russ. Submarine, B. 12.  
RUSSIAN, por, Krasnaya, 28, 29 May 1965.  
9609755  
Dept of Navy/ONI Tr No 951

*[Handwritten initials]*  
12

*Z. Bayko; Radon*

ISSR  
Sec  
Apr 66

298,523

Household Registration in Village Soviets, by G. G. Zhaykov.

RUSSIAN, bk, Uchebnaya Posobiye op Otdel'nykh Otrasyam Statistiki, Chap XI, 1958, pp 369-404.  
CIA 9042322

SIR 3038

USSR  
Soc  
Oct 59

100,200

Solubilities of Ethylene in Hexane, Cyclohexane,  
and Benzene Under Pressure, by T. P. Zhuze,  
A. S. Zhurba, 3 PP

RUSSIAN, par, Iz Ak Nauk SSSR, Otdel. Khim Nauk,  
No 2, 1960, pp 364-365

CB

Sci  
Apr 61

152,895

Solubilities of Hexane, Cyclohexane, and Benzene  
in Compressed Ethylene, by T. P. Zhuze, A. S.  
Zhurba, E. A. Esakov, 4 pp

RUSSIAN, per, Iz Ak Nauk SSSR, Otdel Khim Nauk,  
No 2, 1960, pp 361-363

CB

Sci  
Apr 61

145,397

The Solubility of Natural Gas Components in  
Crude Oils at High Pressures and Temperatures, by  
T. P. Zhuzo, T. P. Safronova, 11 p.

<sup>ix</sup>  
RUSSIAN, per, Otdel Tekh Nauk, Akad Nauk SSSR, 1958,  
No 3, pp 104-108.

SLA 59-17739

Sci  
Feb 60  
Vol 2, No 9

107,059

The Influence of Pressure and Temperature on the  
Viscosity of Aqueous Solutions of Electrolytes and  
of Oil-Field Waters, by T. P. Zhuze, V. I.  
Sergoyevich. UNCL

RUSSIAN, per, *Dz Ak Nauk SSSR, Otdel Tekh Nauk,*  
No 5, 1956, pp 156-163.

ATS RJ-1831

ATS-70L34R

104,580

Sci - Geophys  
Jan 60

The Solubility of Petroleum in Compressed Gases,  
by G. N. Yushkevich, T. P. Zhare, 11 pp.

RUSSIAN, per, Khim i Tekh Topliv i Massl, Vol III,  
No 7, 1958, pp 45-53.

SLA 60-10940

Sci  
Jun 60  
Vol III, No 5

119,178

Compressed Hydrocarbon Gases as Solvents for Petroleum  
and Petroleum Residues, Part 1, by T. P. Zhuze, G. N.  
Yushkevich,

RUSSIAN, per, Iz Ak Nauk SSSR, Otdel Tekh Nauk, No 11,  
1957, pp 63-68.

ATS RJ-1586

Sci  
May 59

87,285

TT-62-28717

Zhuze, T.P. and Yushkevich, G.N.  
LES HYDROCARBURES GAZEUX COMPRIMÉS CON-  
SIDÉRÉS COMME SOLVANTS DU PÉTROLE ET DE  
SES RÉSIDUS. I. (Szhaty Uglevodorodnye Gazy  
Kak Rastvoriteli Nefti i Neftyanykh Sstatkov. I.)  
(Compressed Hydrocarbon Gases as Solvents for  
Crude Oils and Residuum). 18p. (foreign text in-  
cluded) 9 refs. CNRS-VI 297.  
Order from OTS, ETC or CNRS \$1.60 TT-62-28717

Trans. in French of Akademiya Nauk SSSR, Otdelenie  
Tekhnicheskikh Nauk, Izvestiya, 1957, no.11, p.63-  
68.

Another trans. is available in English from ATS  
\$10.50 as ATS-86K24R, 7p.

DESCRIPTORS: \*Petroleum, Solvents, Gases, Pres-  
sure, \*Solubility, Hydrocarbons.

(Materials--Fuels, TT, v. 11, no. 8)

I. Zhuze, T.P.  
II. Yushkevich, G.N.  
III. CNRS-VI 297  
IV. Centre National de la Recher-  
che Scientifique, Paris

Office of Technical Services  
European Translations Centre

Compressed Hydrocarbon Gases as a New Type of  
Solvent, by T. P. Zhuze, 11 pp.

RUSSIAN, per, Vest Ak Nauk SSSR, No 11, 1959,  
pp 47-52.

LLJ Tr Bul  
May 1960

122,571

Sci - Chem

Aug 60

Behavior of Gas-Petroleum systems at Great Depths,  
by T. P. Zhuze, G. N. Ysuhkevich, 4 & pp.  
RUSSIAN, per, Dok Ak Nauk SSSR, Earth Science  
Sections, Vol CLII, Sep, Oct 1963, pp

Amer Geol Inst

Sci  
Jul 65

Effect of Surface-Active Admixtures on the  
Crystallization of Normal Paraffins, by N. G.  
Goldenberg, T. P. Zhuze, 16 pp.

RUSSIAN, per, Kolloid Zhur, Vol XIII, 1951, pp 175-181.

SLA Tr R-814

Sci - Chemistry, fuels  
Oct 57

54,421

Effect of Surface-Active Admixtures on the  
Crystallization of Normal Paraffins, by N. G.  
Goldenberg, T. P. Zhuze, 13 pp.

RUSSIAN, bimoper, Kolloid Zhur, No 2, 1952,  
p 411.

CIA/FDD/XX-88  
IAC INTERNAL USE ONLY

Scientific - Chemistry

31,154  
Feb 56 CTB/DEX

NOT RELEASABLE TO FOREIGN NATIONALS

Electrical Properties of Rare-Earth Monochalcogenides  
(Cerium Subgroup), by V. P. Zhuze, A. V. Golubkov,  
8 pp.

RUSSIAN, per, Fiz Tverdogo Tela, Vol VI, No 1,  
1964, pp 257-267.

q                      Amer Inst of Phys  
                          Sov Phys - Solid State  
                          Vol VI, No 1

Sci-  
Aug 64

265,392

Electric Properties of Semiconducting  $\text{In}_2\text{Te}_3$  With  
Defective Structure, by V. P. Zhuze, V. M. Sergeyeva,  
A. I. Shelykh, 11 pp.

RUSSIAN, per, Fiz Tverdogo Tela, Vol II, No 11, 1960,  
pp 2858-2871.

AIP  
Sov Phys - Solid State  
Vol II, No 11

Sci

Jun 61

158, 531

88  
Determination of the Polarity Sign of Light  
Flux Carriers, by V. P. Zhurav, S. M. Rybkin.  
RUSSIAN, per, Dok Ak Nauk SSSR, Vol 62, No 1,  
1948, pp 55-58.  
HLL Ref:5828.4F (M.13406)

V. P. Zhurav

Sci-Phys  
Feb 70

401,450

Some Modern Methods of Measuring the Hall  
Effect, by V. N. Bogomolov, V. P. Zhurav, 5 pp.

RUSSIAN, per, Poroshkovaya Metallurgiya, No 6,  
(12), 1962, pp 89-95.

CB

Sci  
May 64

259,264

61-18798

Zhuze, V. P. and Ryvkin, S. M.  
THE "EXCITON" CHARACTER OF ABSORPTION OF  
LIGHT AND THE IMPURITY PHOTOCONDUCTIVITY  
(Zksitonnyi Kharakter Pogloshcheniya Sveta i  
Primesnaya Fotoprovodimost'). [1961] [8]p. (foreign  
text included) 11 refs.  
Order from OTS or SLA \$1.10                      61-18798

Trans. of Akademiya Nauk SSSR. Doklady, 1951,  
v. 77, no. 2, p. 241-244.

DESCRIPTORS: \*Light, Absorption, Impurities,  
\*Copper compounds, \*Oxides, \*Photoconductivity,  
Excitation.

(Physics--Optics, TT, v. 7, no. 1)

I. Title: Exciton  
I. Zhuze, V. P.  
II. Ryvkin, S. M.

184210

Office of Technical Services

Inhomogeneous Phenomena in Silver Telluride,  
by V. P. Zhuzh, I. M. Tsivil'kovskiy, T. S.  
Bartnitskays, 6 pp.

RUSSIAN, per, Zhur Tekh Fiz, Vol XXVIII, No 8,  
1958, pp 1646-1650.

Amer Inst of Phys  
Sov Phys-Tech Phys  
Vol III, No 8

Sci - Phys

Mar 59

*83,573*

A Method for Measuring the Rate of Surface Recombination in Accordance with the Variation of the Resistance of a Semiconductor in a Magnetic Field, P. Zhuze, G. E. Pikus and O. V. Sorokin, 7 pp. <sup>1957</sup> <sub>by</sub>

RUSSIAN, per, Zhur Tekh Fiz, Vol XXVII, No 6, 1957, pp 1167-1173.

Amer Inst of Phys  
Sov Phys-Tech Phys  
Vol II, No 6

Sci - Phys  
May 58

62, 723

Anisotropy of the Hall Effect in Partially-  
Reduced Single-Crystal Rutile ( $\text{TiO}_2$ ), by  
V. N. Bogomolov, V. P. Zhuza, 5 pp.

RUSSIAN, per, Fiz Tverdogo Tela, Vol V, No 11,  
1963, pp 3285-3290.

Amer Inst of Phys  
Sov Phys - Solid State  
Vol V, No 11

Sci  
May 64

260213

Thermomagnetic Effects in InSb, by V. P. Zhuze,  
I. M. Tsidil'kovskiy, 9 pp.

h  
RUSSIAN, per, Zhur Tekh Fiz, Vol XXVIII, No 11,  
1958, pp 2372-2381.

Amer Inst of Phys  
Sov Phys - Tech Phys  
Vol III, No 11

Sci - Phys  
Jul 59

90,752

(FDD 24840)

The Problem of the Variation of Heat Conductivity of Semiconductors in a Magnetic Field, by Kh. I. Amirkhanov, A. Z. Kaibov, V. P. Zhuze, 9 pp.

RUSSIAN, thrice-mo per, Dok Ak Nauk SSSR, Vol XCVIII, No 4, Moscow, Oct 1954, pp 557-560.

CIA/FDD/U-7122

PT-32757

26493

USSR

Sci - Physics, semiconductors

Jul 55

On the Question of the Effect of an External  
Electrostatic Field on the Surface Recombination  
Rate in Germanium, by V. P. Zhur, G. E. Pikus,  
O. V. Sorokin, 6 pp.

RUSSIAN, mo per, Zhur Tekh Fiz, Vol XXVII, No 1,  
Jan 1957, pp 23-29.

Ameri Inst of Phys  
Sov Phys, Tech Phys  
Vol II, No 1

56,911

Sci - Phys

Jan 58

Semiconducting Compounds with the General Formula  
ABX<sub>2</sub>, by V. P. Zhuze, V. M. Sergeyeva, E. L.  
Sutrum, 14 pp.

RUSSIAN, per, Zh<sup>U</sup><sub>T</sub> Tekh Fiz, Vol XXVIII, No 10,  
1958, pp 2093-2108.

Amer Inst of Phys  
Sov Phys - Tech Phys  
Vol III, No 10

Sci - Phys

Jun 59

90,0796

Magnetic Measurements with the Second Cosmic  
Rocket, by S. Sh. Dolginov, E. G. Eroshenko,  
L. N. Zhuzgov, N. V. Pushkov, L. O. Tyurmina,  
13 pp.

RUSSIAN, bk, *Iskusstvennyye Sputniki Zemli*, No 5,  
1960.

Flenum Press

In CIA Lib  
Sci - Space Res  
Jun 61

153,449

Magnetometers in the Third Soviet Earth Satellite,  
by S. Sh. Dolginov, L. N. Zhuzgov, V. A. Selyutin,  
39 pp.

RUSSIAN, bk, *Iskusstvennyye Sputniki Zemli*, No 4,  
1960.

Plenum Press

In CIA Lib  
Sci - Space Res  
Jun 61

153,442

Preliminary Report on Geomagnetic Measurements  
Carried Out With the Aid of the Third Soviet  
Artificial Earth Satellite, by S. Sh. Dolginov,  
L. N. Zhuzgov, N. V. Pushkov, 3 pp. UNCL

RUSSIAN, per, *Iskusstvennyye Sputniki Zemli*,  
No 2, 1959, pp 50-53. (papers presented at Moscow  
Conference of CSAGI, Moscow, 1-9 Aug 1958.)

US JPRS/DC-287

AF 1231316

96,259

Sci - Geophys  
Sep 59

Clinical and Laboratory Data Characterizing  
Type A-Friss Influenza in Adults During the Out-  
breaks of 1953-54, by P. G. Epshtein, E. Yu.  
Borckina, G. V. Zhuzhgina, G. D. Martynova,  
6 pp.

RUSSIAN, per, Zhur Mikrobiol Epidemiol  
Imunobiol, Vol XXIX, No 9, 1958, pp 29-33.

Pergamon Inst

Sci - Med

May 59

86,238

Separation of Latex from a Low Stream by Fil-  
tration at Constant Velocity, by  
Yu. V. Prosevitkiy, V. A. Zhuzhikov.  
RUSSIAN, per, Rhis Proc., No 2, 1963, pp 49-52.  
ARC ARL-Treas-572

83

V. A. Zhuzhikov

Sci-Thys  
Jul 68

357,310

(NY-3000)

Progress at the Georgian Agricultural Machinery  
Plant, by I. Zhuahunashvili, 3 pp.

RUSSIAN, np, Zarya Vostoka, 1 Feb 1961, p 3.

JPRS 9919

USSR

163,965

Econ

Aug 61

S-194/60

(NY-3803).

Radioactive Iodine in the Therapy of Thyrotoxicoses,  
by K. D. Eristavi, T. O. Zhvaniya, N. N. Kebabze,  
M. G. Gachicheladze, 7 pp.

RUSSIAN, per, Problemy Endokrin i Gormonoterapii,  
Vol VI, No 1, 1960, pp 102-105.

JPRS 2688

Sci - Med, Endocrinology  
Jun 60

117,338

Structure of Alkali Halide Phosphors and the  
Mechanism of Luminescence Processes, by L. M.  
Shamovskii, A. A. Dunina and Iu. N. Zhvanko, 4 pp.

RUSSIAN, per, Iz Ak Nauk SSSR, Ser Fiz, Vol XXI,  
No 5, 1957, pp 675-677.

Columbia Tech

Sci - Phys

Aug 58

71,799

Surface-Activated Phosphors, by L. M. Shamovskiy  
and Yu. N. Zhvanko, # pp.

RUSSIAN, mo per, Iz Akad Nauk SSSR, Ser Fiz, Vol XXI,  
No 4, 1957, pp 557-569.

Columbia Tech

Sci - Phys

Jul 58

67,452

(NY-3000)

VM-2KM Electric Vacuum Furnace for Pulling  
Monocrystals, by V. Yu. Zhvirblyanskiy, D.  
N. Bankov, 3 pp.

RUSSIAN, per, Byul' Tekh-Ekon Informatsii,  
No 9, 1961, pp 6-7.

JPRS 13767

IBER  
Econ  
Sci - Rngr  
May 62

196,970

Investigation of Isoxazoles. XI. Condensation of  
Isoxazoles with Aromatic Aldehydes, by N. K.  
Kochetkov, S. D. Sokolov, V. E. Zhvirblis, 6 pp.

RUSSIAN, per, Zhur Obshch Khim, Vol XXX, No 11,  
1960, pp 3675-3681.

CB

Sci

Oct 61

177, 995

A Study of the Metabolism of Some Beer-Infection  
Bacteria, by A. Yu. Zhvirblyanskaya, 8 pp.

RUSSIAN, per, Mikrobiologiya, Vol XXXII, No 3,  
1963, pp 541-550.

CB

Sci

Apr 64

255,048

Experiments on a Pilot Plant Scale for Obtaining  
Crystalline Sugar Without Boiling of Masecutes,  
by J. M. Zhvirblyanskiy, et al.  
RUSSIAN, per, Trudy Vsesoyuz Tsentr Nauch-Issled.  
Inst Sakhar Prom, 1955, pp 105-125.  
CSR Co

Sci  
Jun 64

Effect of the Motion of the Nucleus on  
the Fine and Hyperfine Structure of  
Terms, by L. Računaitis, S. Žvirionaitis,  
8 pp. 108

RUSSIAN, per. Vilniaus Valskybinio  
Univer Mokslo Darbai, Mat. Fiz., Vol XXV,  
No 6, 1958, pp 108-115. P100047667  
AFCHL T-R-622

S. Žvirionaitis

Sci - Math Sci  
Mar 67

320,531

Velocity and Temperature Distribution in a Turbulent  
Boundary Layer on a Plate, by I. I. Zhyugzhda,  
V. I. Mikheyevich, 8 pp.  
RUSSIAN, per. Trudy Khim Geol i Tekh Nauki 68  
Ser D, Ak Nauk Lit SSSR, No 3, 1963, pp 99-108.  
9096120  
FTD-TT-66-800

Sci - Phys  
Mar 65

I.I. Zhyugzhda

376,923

EXPERIMENTAL INVESTIGATION OF HEAT TRANSFER OF  
A LONGITUDINALLY STREAMLINED PLATE IN A LAMINAR  
BOUNDARY LAYER, BY A. A. ZHUKAUSKAS, I. I.  
ZHUGZHDA, 7 PP.

RUSSIAN, PER, INZHENERNO-FIZ ZHUR, VOL IV,  
NO 11, 1961, PP 105-108.. 967796

FTD -TT-62-798

SCI - PHYS  
AUG 62

207,968

S-4194

DC-1846

Medical Cadres, Their Preparation and Advanced Training, by V. A. Baltiyskiy, A. I. Golykov, A. P. Zhyuk, V. V. Yermakov, I. M. Starobinskiy, 50 pp.

~~RUSSIAN~~, ~~OK~~, Sorok Let Sovetskogo Zdravookhraneniya, Moscow, 1957, pp 359-406.

US JPRS/DC-L-1019

USSR  
Sci - Medicine  
Dec 58

69,950

<p>Zjabicki, A. SOME REGULARITIES IN SPINNING SYNTHETIC FIBERS. Supplement to the report "Influence of the Spinning Rate on the Stretching of Perlon Fibers [by H. Sauer]. 21 Feb 63, 10p. 7 refs. Order from SLA \$1.10</p>	<p>63-18089</p>
<p>Trans. of Faserforschung u[nd] Textiltechnik (East Germany) 1957, v. 8 [no. 11] p. 467-469.</p>	<p>1. Title: Spinning 2. Title: Perlon I. Zjabicki, A. II. Title: Influence ... III. Sauer, H.</p>
<p>DESCRIPTORS: *Fibers (Synthetic), Thickness, *Heat transfer, Numerical analysis, Thermal radiation, *Nylon, Polyamide plastics, *Rayon, Tensile properties.</p>	<p>1 4 9 7 7 7</p>
<p>(See also 59-17400)</p>	<p>Office of Technical Services</p>
<p>(Materials--Textiles, TT, v. 10, no. 9)</p>	

Titanium-Organic Polymers, by A. Ziabicki, 2 pp.  
(AF 722498).

POLISH, per, Wiadomosci Chemiczne, No XI(CII),  
Nov 1955, pp 558, 559. *U.S. 558, 559*

ATIC F-TS-9024/III

Sci - Chemistry

*46, 474*

<p>Ziabicki, Andrzej. ON THE MESOMORPHIC <math>\beta</math>-FORM OF POLYCAPROIC AMIDE AND ITS TRANSFORMATION INTO THE CRYSTALLINE <math>\alpha</math>-FORM. June 60, 15p. 10 refs. Order from SLA mi\$2.40, ph\$3.30      61-10214</p> <p>Trans. of Kolloid Zeitschrift (West Germany) 1959, v. 167, no. 2, p. 132-141.</p> <p>The mesomorphic <math>\beta</math>-structure of polycaproic amide and the conditions for its transformation into the crystalline form <math>\alpha</math> were investigated by means of roentgenographic, spectrophotometric and polarizing microscope methods. The equatorial reflection <math>d = 4.2\text{\AA}</math>, typical for the <math>\beta</math>-form in the X-ray diagram, is related to the <math>10.22\ \mu</math> absorption band, and the reflections due to planes (200) and (002) in the crystalline <math>\alpha</math> form correspond to the <math>10.42\ \mu</math> band. The transformation <math>\beta \rightarrow \alpha</math> was followed under various conditions in dependence on the intensity changes of these reflections and absorption bands. A structural model of the <math>\beta</math>-form, in which the (Chemistry--Organic, TT, v. 5, no. 4)      (over)</p>	<p>61-10214</p> <p>I. Amide polymers--Crystal structure I. Ziabicki, A.</p> <p>Office of Technical Services</p>
--	---

Deputy Director OF FINANCE EXPLAINS REVISION OF  
Customs Revenue, BY MR. MOHAMMAD ANWAR ZIAEE,

AFGHANISTAN, np, A/NIS, 1 MAY 63.

JPRS 19909

ME - Afghanistan  
Econ

Jul 63

235,169

(NY-1374/41)

Experience of Organization of Sentenary  
Education in a Large Unit, by L. Ya.  
Volodarskiy, A. M. Ziatin

RUSSIAN, no per, Voenno Med Zhur, No 4,  
Moscow, Apr 1961, p 71

Sci  
Aug 61

US JPRS: 9786  
162,537

Material Concerning the Problem of Variation in the  
Enteric Bacillus, by P. N. Kashkin, A. M. Bezborodov,  
K. M. Ziatina, M. G. Proskuriakova, A. L. Slavko.

RUSSIAN, per, Trudy Ak Nauk Latviskoi SSR. Inst.  
Mikrobiologii, No 5, 1956, pp 27-45. CIA 9035535

USDA

Sci - Medicine  
Feb 59

81,215

On the Effect of Short-Range Order on the Nature  
of Conductivity, by V. L. Ziszev, O. A. Esin,  
5 pp.

RUSSIAN, per, Zhur Tekh Fiz, Vol XXVIII, No 1,  
1958, pp 18-21.

2.

Amer Inst of Phys  
Sov Phys- Tech Phys  
Vol III, No 1

Sci - Phys  
Sep 58  
8

74,002

1,2-Naphtho-(3',4')-Puroxan Series. VI. The Bisulfite  
Compound of 6-Nitro-1,2-Naphtho-(3',4')-Puroxan and  
Its Derivatives, by S. V. Bogdanov, N. I. Ziberman,  
6 pp.

RUSSIAN, no per, Zhur Obshch Khim, Vol XXVI, No 7,  
Jul 1956, pp 2071-2076.

Consultants Bureau

Sci - Chemistry  
Nov 57

55,040

The Fungicidal Activity of Citral and Quinosol With  
Regard to Candida, by D. E. ZIBITSKER, 3 pp.

RUSSIAN, per, Zhur Mikrobiol Epidemiol i Immunobiol,  
Vol XXXI, No 7, 1960, pp 15-18.

PP

Sci

Aug 61

164, 223

TT-64-13427

Zibstaker, D. E.  
CYTOTOXIC EFFECT OF DIPHTHERIA TOXIN AND  
TITRATION OF DIPHTHERIA ANTITOXINS IN  
TISSUE CULTURES. [1963] [12p] 2refs FASEB  
manuscript no. S 315-3.  
Order from OTS, SLA, or ETC \$1.60 TT-64-13427

Trans. of Zhurnal Mikrobiologii, Epidemiologii i  
Immunobiologii (USSR) 1963, v. 40, no. 2, p. 82-88.

DESCRIPTORS: \*Toxins and antitoxins, \*Diphtheria  
toxoid, \*Tissue culture, \*Antigen-antibody reactions,  
Cells (Biology), Immunity.

(Biological Sciences--Pathology, TT, v. 11, no. 9)

- I. Zibstaker, D. E.
- II. FASEB-S-315-3
- III. Federation of American  
Societies for Experimental  
Biology, Washington, D. C.
- IV. Scripta Technica, Inc.,  
Washington, D. C.

Office of Technical Services

The Belorussian Institute of Epidemiology,  
Microbiology and Hygiene on the Fortieth Anniversary  
of the Belorussian S. S. R., by V. I. Votikov,  
D. E. Zibitsker, 7 pp.

RUSSIAN, per, Zhur Mikrobiol, Epidemiol i  
Immunobiol, Vol XXX, No 6, 1959, pp 112-117.

FP.

Sci

Aug 60

123,754

Experimental Studies on the Transmission of  
Rabies, by D. Zibordi, 20 pp.

Gior di Batteriol e Immunol  
ITALIAN, per, ~~1932~~, Vol IX, No 6, 1932,  
pp 929-940.

NIH

Scientific - Medicine      CTS/DEX

17,949

Reproduction of Continuous Tones in Electro-  
photography, by Yu. A. Zibuts, L. I. Nyunko.

RUSSIAN, per, Zhur Nauch i Prikl Fotografii i  
Kineematografii, Vol V, No 5, 1960, pp 352-355.

NLL M 8964

Sci - Phys  
May 63

229,129

SETOC

(DC-1093)<sup>6</sup>

New Organizational Build Up of State Farms, by  
M. Zich, F. Cerkva, V. Krotil, J. Placek, 21 pp.  
~~FOR OFFICIAL USE ONLY~~

CZECH, per, Statni ~~Statni~~ Satky, Vol III, No 5,  
12 May 1960, pp 2-8.

JPRS 6004

EEur - Czech  
Econ - Agriculture  
Oct 60

COPYRIGHT

127,918

The Territorial Reorganization in Czechoslovakia  
and its Effect on the Organization of State Farms,  
by Miroslav Zich, FOUO.

CZECH, per, Statni Statky, Vol III, No 3, 12 Mar  
1960, pp 50-52.

FDD Sum 2554

EEur - Czechoslovakia

Econ - Agriculture

May 60

Copyright

115,864

Increasing the Intensity of Production and  
Profitableness on State Farms, by Mr Miroslav  
Zich, 18 pp. UNCLASSIFIED

CZECH, 10-times-yr per, Planovane Hospodarstvi,  
No 7, 2 Sep 1957, Prague, pp 519-531.

US JPRS/DC-L-26

EE - Czech  
Econ - Foreign Trade  
Mar 58

60,065

(U.S. 2000)

Specialized Production of State Farms, by  
Miroslav Zich, 9 pp. GOVERNMENT USE ONLY

CZECH, per, Statni Statky, Vol V, No 4, 1962,  
pp 75-76.  
4

JPRS 13604

EEur - Czechoslovakia  
Econ  
May 62

194, 288

Zicha, L., Scheiffarth, F. and others.  
COMPARATIVE INVESTIGATIONS ON NEW CORTI-  
COID DERIVATIVES IN HISTAMINE AND SERO-  
TONIN ASTHMA IN GUINEA PIGS (Vergleichende  
Untersuchungen mit Neueren Corticoid-Derivaten am  
Histamin- und Serotonin-Asthma des Meerschweinchens)  
[1962] 16p. (figs. tables refs. omitted) 7 refs.  
Order from SLA \$1.60                      63-10325

Trans. of Arzneimittel-Forschung (West Germany)  
1960, v. 10, no. 9, p. 728-731.

DESCRIPTORS: \*Dexamethasone, Predlison, Corti-  
costeroid agents, \*Histamine, \*Serotonin, \*Asthma,  
Laboratory animals, Prednisolone, Aerosols,

(Biological Sciences--Pharmacology, TT, v. 10, no. 2)

63-10325

I. Zicha, L.  
II. Scheiffarth, F.

63-10325

Office of Technical Services

63-10 26

Nicha, L., Scheiffarth, F., and Grau, E.  
COMPARATIVE INVESTIGATIONS OF THE EOSINO-  
PENIC EFFECT OF VARIOUS GLUCOCORTICOID  
ESTERS, WITH SPECIAL CONSIDERATION OF THE  
METHOD OF APPLICATION. [1962] 12p. (figs. tables  
refs. omitted).  
Order from SLA \$1.60 63-10326

Trans. of Arzneimittel-Forschung! (West Germany)  
1961, v. 11, no. 7, p. 606-612.

DESCRIPTORS: \*Dexamethasone, \*Eosinophils, \*Corti-  
costeroid agents, Esters, \*Prednisolone, Hormones,  
Adrenal glands, Pituitary gland, Dosage, Parenteral  
infusion, Intravenous injections, Drugs.

(Biological Sciences--Pharmacology, TT, v. 10, no. 2)

I. Nicha, L.  
II. Scheiffarth, F.  
III. Grau, E.

Office of Technical Services